SRDS Report No. RD-69-22, VOL. (4)

FINAL REPORT

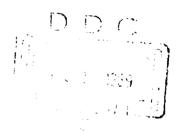
Contract No. FA-67-WAI-129 Project No. 197-641-01R

CLIMATOLOGICAL SUMMARIES

VISIBILITIES BELOW 1/2 MILE AND CEILINGS BELOW 200 FEET

VOLUME 4

INTERNATIONAL AIRPORT BIRMINGHAM, ALABAMA



JUNE 1969

This report has been approved for unlimited availability.

Prepared for

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION Systems Research & Development Service

by

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
ENVIRONMENTAL DATA SERVICE
NATIONAL WEATHER RECORDS CENTER

Asheville, N.C.

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This report has been prepared by U.S. DEPARTMENT OF COMMERCE, Environmental Science Services Administration, Environmental Data Service, National Weather Records Center, Asheville, N.C. for the Systems Research and Development Service, Federal Aviation Administration, under Contract No. FA-67-WAI-129. The contents of this report reflect the views of the contractor, who is responsible for the facts and the accuracy of the data presented herein, and do not necessarily reflect the official views or policy of the FAA. This report does not constitute a standard, specification or regulation.

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2,	1400-	2159 Local standard Time	
3.	2200-	0659 Local Standard Time	
4.	All H	Ou	
χ	11	All conditions.	20
X	Ш	Temperature less than 33° F.	21
>	ΊV	Temperature less than 33° F, with fog. no precipitation and winds of less than 9 knots.	22
>	(V	Temperature less than 33° F, with fog, no precipitation, and wind 9-12 knots.	23
)	(VI	Temperature less than 29° F.	24
>	CVII	Temperature less than 29° F, with fog, no precipitation and wind less than 9 knots.	25
,	VIII	Temperature less than 29° F, with fog, no precipitation and wind 9-12 knots.	26
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INTRODUCTION

The tables contained herein have been prepared and organized for use in evaluating the cost/benefits of all weather landing systems and fog dissipation techniques. Thus, the time intervals of duration of the categories of weather are significant in determining the times of the delay, diversion or cancellation of an aircraft flight resulting from a restricted weather category. This information together with the number and types of aircraft affected by the restricted weather and the costs of a delay, diversion or cancellation combine to provide the total costs resulting from the weather restrictions.

Climatological summaries have been prepared for 41 airports. Their location and associated volume numbers are listed in Table A.

ENVIRONMENT AND INSTRUMENTATION

BIRMINGHAM, ALABAMA

INTERNATIONAL AIRPORT

The Birmingham International Airport is located at the southwestern tip of the Appalachian range at an elevation of about 610 feet above MSL. The terrain is characterized by a series of ridges and valleys oriented generally in a northeast-southwest direction, with the major ridges lying to the east and southeast of the airport.

The airport lies in a valley with ridges about 2 to 3 miles to the northwest and southeast rising 300 to 600 teet atmive the field. The valley in which the airport is located slopes gradually downward to the southwest into lower rolling country, but in all other directions the torrain is very irregular.

The tables in this publication are based on the 10-year period, January 1, 1956-December 31, 1965. Ceiling heights were measured by ceilometer throughout the period. Transmissometer (500 ft, baseline) was commissioned on runway 05 July 11, 1960. Location of the airport weather station, its elevation, and the height of wind instrumentation during the period were as follows:

rom	<u>To</u>	Lat. N.	Long. W.	Height of Wind Instrument Feet above ground	Station Elevation Feet above MSL
1- 1-56	6- 2-63	33° 34'	86° 45'	63	610
6- 2-63	8-25-65	33° 34'	86° 45'	22	610
8-26-65	12-31-65	33° 34'	86° 45'	22	620

NATURE OF DATA

The data used in the preparation of the climatological tables were extracted from 10 years of WBAN 10-A forms from January 1956 through December 1965. There were two exceptions: The data for Dulles International covered the period January 1963 through December 1965 and for Kansas City-Mid-Continent the period July 1957 through December 1965. All data (Record, Special, Local, Check observations) were recorded on punched cards to the hour and minute whenever a change occurred in the ceiling, surface visibility, present weather, runway visual range or runway visibility during the time the ceiling was less than 200 feet and/or the surface visibility was less than 1/2 mile. The observation which ended a category of the above conditions was punched and if this observation was not a Record observation, the next Record observation was punched. The elements transcribed were: the time in hours and minutes, ceiling, surface visibility, tower visibility, present weather, temperature, dewpoint, surface wind, altimeter setting and remarks concerning runway visual range and runway visibility.

These data should prove to be a valuable source for additional studies where low visibilities are considered.

Runway visual range (RVR) is the operational weather criteria for airport landing systems. The limits of visibility conditions for categories of aircraft operations are presented in Table B. Only Cat. II criteria are currently operational. Because RVR as such, is not available on a uniform basis for the station and period of record under study, visibilities and ceilings were used for delineating categories of weather minimums for landing and take-off operations. The determination of RVR would require:

- The light setting of the edge lights, the background lighting,
- the location with respect to runway,
- a special analyzer to integrate the transmissiometer readings etc.

This information has not often been recorded with the transmissiometer data.

* Except Kansas City - Mid-Continent, Only Record (hourly) observations were taken during the period of record at this station; 16 hours per day (0700-2200) through November 1957 and 24 hours per day December 1957 through December 1965.

EXPLANATION OF TABLES

All the tables of climatological summaries except Table I are based on the reported visibilities of less than 1/2 mile and/or ceilings less than 200 feet.

The tables of climatological summaries in these publications include:

- (1) reported visibility and ceiling values versus time intervals of duration,
- (2) weather categories of aircraft landing systems based on their relationship to ceiling and visibility as presented in Table C, versus intervals of duration. This is Table X only.
- (3) percentage frequency of wind direction versus wind speed for each category of aircraft landing system using the relationship of Table C for Record observations only. These are presented for 13 stations only. This is Table XI only.
- (4) weather categories of landing systems based on their relationship to ceilings and visibility as presented in Table E, versus intervals of duration. These tables are also summarized on the basis of wind speed and temperature values.

• These stations are:

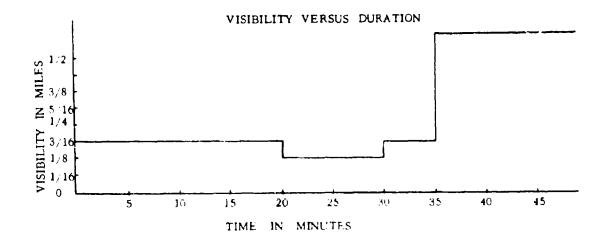
Los Angeles International, Oakland International, Chicago O'Hare, San Francisco International, Greater Buffalo International, Washington National, Washington Dulles International, Atlanta, Newark, New York J. F. K., Philadelphia International, New York La Guardia, Cleveland Hopkins International

REPORTED VISIBILITY AND CEILING VALUES VERSUS INTERVALS OF DURATION

Nine summaries are presented. In Tables I - V the values represent the individual incidents of specified ceiling and visibility. Thus, in Table III 3/8 mile visibility with 100 ft. ceiling occurs with a specific frequency for each interval of duration.

In Tables VI to IX, the frequency of occurrence represents visibilities for specific conditions of ceilings at or below the listed visibility. They are cumulative incidents wherein the total time at or below a certain visibility value for the ceiling value specified is considered as one incident. Thus, if in Table VII there are 172 incidents of 3/8 mile in the interval of 1-15 minutes, it represents 172 times during the 10-year period that visibilities 3/8 mile or less with ceilings 100 feet.

Another example which combines the entries in the individual and the cumulative tables is as follows: If visibility is distributed as shown in the figure, for ceiling 100 feet, if for 20 minutes the visibility was 3/16 then went to 1/8 for 10 minutes, then went to 3/16 for 5 minutes and then to greater than 1/2 mile visibility in Table III there would be 2 counts for 3/16, one under 16-30 minutes and one under 1-15 minutes; and one count for 1/8 under 1-15 minutes; whereas, in the cumulative table for visibilities at or below a given visibility with 100-foot ceilings - Table VII in the 3/8, 5/16, 1/4 and 3/16 mile categories there would be one count under 31-45 minutes (actually 35 minutes) and one count in 1/8 mile category under 1-15 minutes (actually 10 minutes).



To estimate the total time of occurrence for a particular interval of time for the period of record one multiplies the average of time period by the frequency of occurrence of the specified conditions for this time period. Thus, if visibility of 3/8 mile with ceiling 100 feet (Table III) occurred 14 times between 16-30 minutes, the estimated total time would be 14 x 23 or 322 minutes.

WEATHER CATEGORIES OF AIRCRAFT LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE D

A single table (Table X) based on Table C for the period of record is presented. Table C is based on the current practices relating RVR to meteorological visibilities as shown in Table D.

Table X is in three sections:

Xa. Frequency of occurrence of the landing categories versus the indicated duration intervals:

In this summary Categories II, IIIa, IIIb, and IIIc are represented by the frequency of these conditions occurring during the specified intervals.

In Category II + III the frequency represents the visibilities and ceilings at or below Category II weather, i. e., below 200 feet and/or 1/2 mile for a continuous period of time.

In Category III, the number of occurrences represent the frequency the weather was in in Category IIIa and IIIb/c i.e., observation below 1/4 mile and equal to and above 1/4 mile when the ceiling is reported as zero for a continuous period of time.

Xb. Total time in each duration versus the duration intervals in hours and tenths of hours. The entries in this table are arrived by adding the times in minutes associated with the frequencies above. These totals are converted to hours and tenths. This table also contains the percentage of time for the 10-year period of observations of specified duration intervals, i. e., 1-90, 91-all, 1-all. This table is derived by dividing the total time under each category for the specified duration interval by the total number of hours. Thus the percentage value for Category II + III the 1-all group (last column, 4th value down) represents the frequency of occurrence for the ten-year period in percent of visibility and ceilings below 1/2 mile and/or 200 feet.

Xc. Average time in each duration versus the duration int rvals.

This table is derived by dividing the total time in minutes of each item in Table Xb by the frequency of occurrence in Table Xa.

WIND DIRECTION VERSUS SPEED BY PERCENTAGE FREQUENCY (Table XI)

Table XI (for 13 stations) (unnumbered on summaries) show the percentage distribution of the different categories in accordance with Table D by wind direction to 16 points versus specified speed intervals. These categories, II, IIIa and IIIb/c, are divided into 2100-0500 and 0600-2000 hour groups making a total of six sub-tables.

Only the hourly (Record) observations when Category II or below conditions exist are used in these summaries. The percentages are determined by dividing the number of hourly observations which were recorded during the entire period of record for the indicated hour group. The percentage figures can be combined to obtain percentages for the quadrants of different speed intervals.

WEATHER CATEGORIES OF LANDING SYSTEMS VERSUS INTERVALS OF DURATION BASED ON TABLE E

Nine tables XII - XXI are presented for the ten-year period. These tables are presented in three sections:

a. Frequency of occurrences of landing categories versus duration intervals:

Categories II, IIIa, IIIb, and IIIc are represented by the total time for the specified hour group that these conditions occur during the indicated intervals.

In Categories II + III the frequency represents the visibilities and ceilings at or below Category II weather e.g., below 2400 RVR. In Category III the frequency represents the visibilities at or below Category III weather e.g., below 1200 RVR.

b. Total time in each duration versus the duration intervals hours and tenths,

The entries in this table are derived by adding the time in minutes associated with the frequency above and converting them to hours and tenths.

c. Average time in each duration versus the duration intervals.

This table is derived by dividing the total time in minutes of each value in b by the corresponding frequency of occurrence in a.

In these tables, since the period of duration is the important element, each incident of weather is attributed to the hour group during which it began. Thus, if Category IIIa weather began in the 22-06 hour group and continued into the 07-13 hour group the total time is placed in the 22-06 group. It is probable, then, that the incidence of the various categories may be overestimated in the 22-06 group. The totals appearing in the all hour group, however, are correct.

The sum of Categories IIIa, IIIb, and IIIc in the all-hour groups and sometimes in the other hour groups are frequently greater than under Cat. III. This results from the addition of 5% of observations of 3/16 mile or greater with ceiling 100 feet added to Cat. IIIa, whereas, this 5% is not included in the Cat. III totals at the bottom of each table.

The difference between Cat. III totals and the sum of Cat. IIIa, IIIb, and IIIc are subtracted from the Cat. II totals for the all-hour group and appears at the end of the Cat. II line with an asterisk. This value is a better estimate of the occurrence of Cat. II weather for the 10-year period.

EXPLANATION OF TABLE E

The relationship of RVR with light setting 5 for a 500' baseline to the meteorological report of visibility, based on the information in Circular N^1 /, is given in Table F. This was the basis for establishing the relationships in Table E. The use of the highest setting for the edge lights for approaches in low visibility is the current operational practice. Although the selection of some of the relationships in Table E have been somewhat arbitrary, it can be expected that the observers report of low visibilities and ceilings will be more inexact than the cut off point of these relationships.

1/ Manual of Surface Observations (WBAN). Circular N, Weather Bureau, Washington, D. C. NAVAIR 501D505, July 1968 (AD672-366)

ACKNOWLEDGEMENTS

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This is one of 41 volumes of Report RD-69-22. The volumes are as follows:

VOL.	CITY	AIRPORT
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	Anchorage, Alaska Arlanta, Georgia Baltimore, Maryland Birmingham, Alabama Boston, Massachusetts Buffalo, New York Burbank, California Chicago, Illinois Cincinnati, Ohio Cleveland, Ohio Columbus, Ohio Dallas, Texas Dayton, Ohio Denver, Colorado Detroit, Michigan Hartford, Connecticut Houston, Texas Indianapolis, Indiana Kansas City, Missouri Los Angeles, California Louisville, Kentucky Miami, Florida Milwaukee, Wisconsin Minneapolis, Minnesota	International Atlanta Friendship International International General E. L. Logan International Greater Buffalo International Hollywood-Burbank O'Hare International Greater Cincinnati Cleveland-Hopkins International Port Columbus International Love Field James M. Cox Municipal Stapleton International Detroit Metropolitan-Wayne County Bradley International (Windsor Locks) William P. Hobby Weir Cook Mid-Continent International International Standiford Field International General Mitchell Field Minneapolis-St. Paul International
13. 14. 15.	Dayton, Ohio Denver, Colorado	Love Field James M. Cox Municipal Stapleton International
16. 17. 18. 19.	Hartford, Connecticut Houston, Texas Indianapolis, Indiana	Bradley International (Windsor Locks) William P. Hobby Weir Cook
21. 22. 23.	Los Angeles, California Louisville, Kentucky Miami, Florida Milwaukee, Wisconsin	International Standiford Field International
24. 25. 26. 27. 28.	Nashville, Tennessee Newark, New Jersey New Orleans, Louisiana	Minneapolis-St. Paul International Metropolitan Newark International
29, 30, 31, 32,	New York, New York New York, New York Oakland, California Philadelphia, Pennsylvania Pittsburgh, Pennsylvania	John F. Kennedy International La Guardia Metropolitan Oakland International International Greater Pittsburgh International
33. 34. 35. 36. 37.	Portland, Oregon Rochester, New York St. Louis, Missouri Salt Lake City, Utah San Francisco, California	International Rochester-Monroe County Lambert-St. Louis Municipal Municipal No. 1
38. 39. 40. 41.	Seattle, Washington Syracuse, New York Washington, D. C. Washington, D. C.	International Seattle-Tacoma International Clarence E. Hancock Dulles International National

TABLE A

LIMITS OF LANDING CATEGORIES

- CAT. II Operations down to minima below 200 feet decision height and 2400 RVR and to as low as 100 feet decision height and 1200 RVR,
- •• CAT. IIIA Below 100 feet decision height and 1200 RVR and to as low as 50 feet decision height and 700 RVR.
- •• CAT. IIIB Below 700 RVR to 150 RVR.
- •• CAT. IIIC No external visual reference.

TABLE B

- Current operational criteria
- Criteria not firm, used for planning purposes

CEILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES OF AIRCRAFT LANDING OPERATIONS CURRENT PRACTICE CRITERIA for Table X and XI

Category II: Visibility = 1/2 and ceiling = 100

Visibility ≈ 3/8 and ceiling ≠ 0

Visibility = 5/16 and ceiling $\neq 0$

Visibility = 1/4 and ceiling # 0

Category III-a: Visibility = 1/4 and ceiling = 0

Visibility = 3/16 and all ceilings

Visibility = 1/8 and all ceilings

Category III-b/c: Visibility = 1/16 and all ceilings

Visibility = 0 and all ceilings

Category III: The sum of IIIa, IIIb, and IIIc

TABLE C

RVR VERSUS VISIBILITY (Current Practice)

 METEOROLOGICAL
 RVR EQUIVALENT

 Statute Miles (feet)
 Feet

 3/16 (990 feet)
 1200

 • 1/4 (1320 feet)
 1600

 • 1/2 (2640 feet)
 2400

TABLE D

 United States Standard for Terminal Instrument Procedures (TERPs), Federal Aviation Agency, September 1966.

CEILING AND VISIBILITY EQUIVALENTS FOR CATEGORIES OF AIRCRAFT LANDING OPERATIONS Criteria for Tables XII-XXI

Category II Below 2400 ft. RVR to 1200 ft. RVR

Equivalent Meteorological Observations

All observations with visibilities greater than 3/8 mile with ceiling 100 feet.

All observations of 3/8 mile with ceiling not equal to zero.

All observations of 5/16 mile with ceiling not equal to zero.

All observations of 1/4 mile with ceiling not equal to zero.

All observations of 3/16 mile with ceiling not equal to zero.

Caregory III
Category IIIa
Below 1200 ft, RVR to
700 ft, RVR

All observations of 1/8 mile.

All observations of 3/16 mile or greater with zero ceiling.

5% of observations of $3/16\ mile$ or greater with ceiling 100.

Category IIIh
Below 700 ft. RVR to
150 ft. RVR

All observations of 1/16 mile.

50% of all observations of zero miles.

Category IIIc Below 150 ft. RVR

50% of observations of zero miles.

TABLE E

RVR VERSUS METEOROLOGICAL VISIBILITY

Circular N

Reported Meteorological Visibilities	RVR (500 ft. b Setting	Category		
Miles (feet)	Day	Night		
0 (less than 330 feet)	•	•	(IIIc and IIIb)	
1/16 (330 feet-650 feet)	•	•	(IIIp)	
1/8 (660 feet-980 feet)	1000-1400	•	(IIIb and IIIa)	
3/16 (990 feet-1310 feet)	1400-1800	1200-1800	(Cat. II)	
1/4 (1320 feet-1640 feet)	1800-2200	1800-2200	(Cat. II)	

[•] No determination of RVR with respect to meteorological visibility.

TABLE F

Flamby own, Interval Loyal

PROPERTY OF INTERNALS OF UNKAFFA AFRIC CARROUTES OF ALSTHOLOUSES. THOSAN THEO A OFFERIOR 1995

TABLE 1. CESTBOLITY & 1/2 MICE WHEN SELENG A 200 FEET.

1-15 182 33 10 10 10 MINUTES
1-15 18-20 31-45 48-60 41-120 121-125 181-240 241-360 3814-480 4814
45 182 33 10 11 9 10 11 MINUTES

TABLE IT. CHARSPECTIVE OF CETCINALS

	DUBATION IN MINUTES														
v13:81L111	1-19	10-10	315	46+69	61-40	91-130	121-100	181-280	241-140	341-485	461.				
1/4	,	•	- 1	2	ı										
9/16															
174	• ?	2.	•	14	1 C	•		1	ı						
3-14															
176	13	11	12		•	ı		2	1						
1/10	•		•	,	1	,			2						
•			1	1					,						

TABLE III. (CEILING 100 FEET:.

					Did	RAT104	IN MINUT	t s		
413101L[TT	1-15	14-16	11009	40443	81-9C	91-120	121-165	141-240	241-160 361-46	0 481.
3/4					1					
3/14										
1/4	1.	•	•	,	,	1	1	1		
3/10										
1/8	•			1	1					
1/16	2	ı	ı	i i					1	
0		ı		1						

TABLE IVE CCELLING ZEROL.

	DURATION IN MINUTES														
VISIBILITY	1-15	10-30	31-45	46-80	41-90	91-120	121-180	101-2-0	241-360	361-480					
3/0	1			1											
5/14															
1/4	10	•	1	l l	7	1	ι								
3/16															
1/6	•	•	1	1	1	2		1	1						
1/14	,	1	1		1	ı	ł								
c		2	,	,	3		1	ı	1						

TABLE V. ICETLING 100 FEET OR ZERO!

CONSTIDUTE NUMBER												
VISIBILITY	1-19	14-30	31-45	48-60	41-4C	41-150	121-100	101-2-0	241-365	361-460		
3/8	- ₹	- 1	1	1	ı							
9/16												
1/*	25	15	,	7	•	,	3	1				
3/16												
1/8	12		7	2	2	2	1	1	ı			
1/,6	7	3	2	1	ı	1	2		l.			
c	•		2	,	3	4	,	1	1		1	

TOTAL TIME AT OR BELOW EACH VISIBILITY CLASSED AS ONE INCIDENT TABLE VI. LIPRESPECTIVE OF CEILING.

	DURATION IN MINUTES													
VISIBILITY	1-15	16-30	31-45	44-45	61-90	41-170	121-100	16:-240	241-340	341-485	*\$1.			
3/0		1.9	•	13	17	15	10		1.	2	1			
5/10	41	16		1.	1.6	i 3	10	•	10	2	1			
1/4	41	14		14	1.6	13	16		10	2	- 1			
3/16	12	7		,	10		,	3		1	ı			
1/4	13	7	4	,	10	•	,	,		2	1			
1/16	7	•	•			,	•	1			1			

TOTAL TIME AT DR BELOW EACH VISIBILITY CLASSED AS SHE INCIDENT TABLE VIL. (CELLING 100 PEET).

	DURATION IN MINUTES													
VISIBILITY	1-13	10-30	31-45	46-60	41-00	01-170	121-110	181-140	141-360	341-480	461.			
3/8	17	:0	10	•		2	•	i	1					
9/14	15	•	10	•	,	₹	•	i	1					
1/0	19		10	•	7	2	•	ì	:					
3/10		,	,	2	,		2	-	1					
1/6		,	5	2			2		1					
1/18	2	1	ı	2	1		l l		1					
0	1	1		1	1		1							

TOTAL TIME AT ON BELOW EACH VISIBILITY CLASSED AS ONE INCIDENT TABLE VIII. (CEILING ZERO).

					8.0	POITAR	IN MINUT	63			
VISIBILITY	1-19	16+10	31-45	44-40	41-90	41-140	12:-100	101-240	241-360	361-a6C	481+
3/6	21	7		1	11	,	•	, ,		2	1
5/10	21	7		1	10	9	. 4	, ,	2	,	1
1/4	21	7		i	10	1	•	j	,	,	i
3/10	13	4	,	2	4	•	, ,	,	1		1
1/8	13	4	•						1	ž	1
1/16	•	- ≀	,			•	1		1		1
٥		2		•		•					1

TOTAL TIME AT OR BELOW EACH VISIBILITY CLASSED TO THE INCIDENT TABLE TAT ICELLING 100 PERT OR ZENOT.

					ou.	RATION	IN MINUTE				
W15191L1TV	1-19	14-30	31-49	46-60	91-9C	91-120	121-100	181-240	2-1-340	1+1-480	2610
3/4	2.2		10		10	11	10	ì		2	1
9/16	21		10		i 9	11	10	ì	•	2	ì
1/4	21	3	10		19	11	10	i	•	,	1
3/16	10	2	10		7	7	•	ž	2	,	i
1/0	10	,	10		7	7	•	j	ž	7	
1/10				4			•	;	ż	-	i
			- 1	_	- 2			-			

- 17

TABLE X							t: 1	RMINGHAM	, INTERN	ATIONAL							
ALL SEASO	ONS							Al	L HOURS					JANUARY	1956 - I	DECEMBER	1965
FREQUENCY	OF 00	CURRE	4CE														
								E IN MI								PERCENTA	GE
CATEGORY							121-180	181-240	241-360	361-480	481+	1-90	91-ALL	1-ALL	1-90	91-ALL	1-ALL
!!	•	54	35	20	10	10	2	3	1			211	16	227			
IIIA	31	50	19	,	•	,	7	1	4			82	15	97			
1110/0			3	1	6	7	,		•		1	29	14	48			
11 + 111	32	32	29	10	21	20	19		12	4	2	150	65	215			
111	24	14	14	•	14	10	7	3	11	1	2	72	34	104			
TOTAL TIM	E 14 E	ACH D	PATIO	HOURS	AND '	TENTHS											
								IN MI								PERCENTA	
CATEGORY										341-480	481+	1-90	91-ALL	1-ALL		91-ALL	1-ALL
! !	10.8	21.7		18.0		17.4	4,3	9.5	4.3			101.0	35.4	136.4	•12	.04	- 16
111A	5.9	7.9	12.7	2.7	11.7	5.6	17.0	3.2	50.0			40.9	45.7	84.6	•05	.05	•10
IIIB/C	1.7	3.2	1.7	1.0	10.2	11.9	11.6		27.7		12.7	17.9	43.7	81.5	•02	.07	•09
111 • 111	9.0	13.1	19.4	14.0	26.4	34.7	47.1	27.5	41.6	29.2	22.7	82.0	222.8	304.8	.09	.25	.35
111	4.6	5.5	9,5	5.4	17.7	17.4	16.4	10.1	53.5	6.8	21.3	42.9	125.5	168.4	.05	.14	-19
AVERAGE T	IME I	W EACH	DURAT	-	NUTES	AND TEN	TH5										
								HE IN MI								PERCENT	
CATEGORY	1-15	16-30	31-45	46-60	61-90	91-120	121-180	181-240	241-360	361-480	481.	1-90	91-ALL	1-ALL	1-90	91-ALL	1-411
11	10.5	24.1	40.1	54.0			129.5	109.3	256.0			28.7	132.5	36.1			
111A	11.3	23.8	40,2	53.7	70.2	111.0	145.4	189.0	300.3			29.9	182.7	53.6			
1118/6	11.4	24.1	34.7	40.0	76.6		139.6		276.7		744.0	37.0	201.9	102.3			
11 + 111	10.3			52.4	75.4		148.4	206.5			681.5	32.0	205.7				
111	12.1	23.4	40.8	53.5	74.0	104.6	140.1	202.0	291.9	406.0	640.0	35.8	221.5	95.3			
TOTAL DES	ERVAT	10N HO	UR S	87672													

BIRMINGHAM, INTERNATIONAL

NO WIND TABLES FOR THIS STATION

	OF OCCURR	ENCE		- 1300			JANUAR	Y 1956	- DECEMBE	ER 1965	
IIA IIB	1-15 16-3	0 31-45	46-80 61-90	l .	TIME IN 121-180 181-2	MINUTES 40 241-360 361-480	481+	1-40	91-ALL	1-ALL 2 2	
1¢ + 111	1		1	1				2		. 2	
	E IN FACH	DURATION	N HOURS AND	TENTHS							
TEGORY	1-15 16-3	0 31-45	46-60 61-90 1.1 1.1	i	TIME IN 1 121-180 181-2	29TUNIN 08+-14E 08E-145 04	481+	1-90 1.3 1.3	91-ALL	1-ALL 1.3 1.3	
18 1C • 111	. 3		1.1	L				1.3		1.3	
T PRAGE TI	IME IN FAC	H DURAT!	ION HINUTES	AND TEN	744						
				91-120	TIME IN	MINUTES 40 241-360 361-480	481+	1-90 39.0 39.0	91-ALL	1-ALL 39.0 39.0	
110	15.0		63.0	0				19.0		39.0	
11			140	- 2100	(29224 DBSE8	VATION HOURS)					
IPQUENCY ITEGORY	DF DCCURR				TIME IN	MINUTES					
I I A I I B I I C	·-·> [0-]	3 2	40-80 81-90	v +1-170	141+180 181-2	+0 2+1-3+0 3+1-480	461+	1-90 3 5	41-ALL	1-ALL 3 5	
• 111		1 2 2			1			1	1	2	
		-	N HOURS AND	- •	TIME IN	MINUTES					
ATEGORY I IIA IIB	1-15 16-1	. 1	40-00 al-9	0 91-120	121-180 181-2	40 241-360 361-480	481+	1-90 1.1 2.4	91-ALL	1-ALL 1.1 2.4	
11 1 + 111 11C	;	.3 7 1.4			2,1			.3 2.1	2.9	3.1 2.1	
			TON MINUTES		TIME IN	MINUTES					
ATEGORY	1-15 16-1 21. 21	. 0		0 91-120) 121-180 181-1	140 241-360 361-480	481+	1-90 21.0 29.2	91-ALL	1-ALL 21.0 29.2	
11C 1 • 111	16 21		,		172.0			16.0	172.0	94.0 31.3	
# FOUENCY	OF DCCUR	ENCE	220	0 - 0600	132877 DBSE	EVATION HOURS)					
ATEGORY			+6-60 61-9	0 41-120	TIME IN 121-180 181-1	MINUTES 140 241-360 361-480	481+	1-90	91-ALL	1-ALL	
I I A	1	ì		1				3		3	
110	1			1	1 1 1			1 2	1 2	1 3 3	
DTAL TIM	E IN EACH	DURATIO	N HOURS AND	TENTHS	TIME IN	MINUTES					
ATEGORY 1 114		90 31-49 .4	1 46-60 61- 9 1.			140 241-360 361-480	481+	1-90 .4 2.1	41-ALL	1-ALL .4 2.1	
116 110	.1		••		3.0			•••	3.0	3.0	
1 + 111	. 3		1.		3.0			1.7	3.0	4.7	
VPRAGE T Ategory			'ION MINUTES		TIME IN	HINUTES	481+	,	91-ALL	1	
I IIA IIB	15.0 22	. 0			- 141-140 181+;	240 241-360 361-480	4014	1-90 22.0 41.7		1-#LL 22.0 41.7	
11C 1 + 111	15.0			110.0	180.0 180.0 180.0			15.0		180.0	
			ALL			RYATION HOURS)		-4.5			
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				TIME IN	MINUTES 240 241-360 361-480	4114	1-90	91-ALL	1-411	
1 114 118	2	3 2		1 2	1		7017	6 9		1-411	
11 111	2 1	1 2	ł	1	1 2 1			4	3	7	
			ON HOURS AND		TIME IN	MINUTES					
	.,	30 31-45	1.	. 1	0 121-140 181-	240 241-360 361-460	481+	1-90 2.7 5.2		1-ALL 2.7 3.2	
ATEGORY					3.0			1.0	3.0 7.7	9.5	
ATEGORY 11 1114 1118 1110 11 • 111	:3	.7 1.4		. 9	3.0			3.6		6.8	
ATEGORY 11 1114 1118 1110 11 • 111	.) Time in ea	.7 1.4 CH DUPA1 30 31-45	1 100 MINUTES 5 46-60 61-6 63	.5 5 ANO TE: 90 91-12 .0	3.0 NTHS Time in	HINUTES 240 241-360 361-480	481-		91-ALL	1-ALL 27.2 34.3	

33 GEGREES LPIT WIT	H FOG, NO PRECIPITATION, AND WIND	< 9 kN0		. 6/6844	
7 2 46-60 61-90 81-113	TIME IN MINUTES 121-180 181-240 241-360 361-480	****	1-00 1 1	91-466	1-#((
ı			ì		ι
ON HOURS AND TENTHS	TIME IN HINUTES				
1.1 1.1	. [5]-[40 [8]-540 [4]-362 38]-483	••1•	1.1	VI-4(1	1-4:1 1-1
1.1			1.1		1.1
TION PENUTES AND TEN	ITMS				
5 46-60 61-90 41-120 63.3 63.0	TIME IN MEMOTES 1 121-180 181-240 241-350 331-480	•61•	1-90 63.0 63.0	91-± ct	1-411 63.3 63.0
	3) CEGREES (F), VIT 2000 - 130	0100 - 1700 125971 DBSERVATION MOURS) TIME IN MINUTES 5 40-00 61-00 91-120 121-180 181-240 241-380 391-480 1 1 0H -GURS AND FENTHS TIME IN MINUTES 5 40-00 61-00 71-120 121-180 181-240 241-390 381-480 1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.0 1.0 1.0	33 CESSEES (F), WITH FOC, MO'RRIC() PITATION, AND WING C 9 AND DOOD - 1700 (22371 DBSTRATTON MOURS) JANUAR TOO 123511 DBSTRATTON MOURS) JANUAR TIPE IN MINUTES 5 40-00 61-90 91-120 121-180 181-240 241-360 381-480 481+ 1 ON HOURS AND TENTHS 7 40-00 61-90 91-120 121-180 181-240 241-360 381-480 481+ 1.1 1.1 1.1 TIDM MINUTES AND TENTHS 7 40-60 61-90 91-120 121-180 181-240 241-360 321-480 481+ 9 3-2 83-0	33 CESSEES (F), WITH FOC, NO PRECIPITATION, AND WING C P ANDTS. 3000 - 1700 (22371 DBSTRATTON MOURS) JANUARY 1838 TIRE IN MINUTES 5 40-00 61-90 91-120 121-180 181-240 241-360 381-480 481+ 1-90 1 ON HOURS AND TENTHS 7 40-00 61-90 91-120 121-180 181-240 241-360 381-480 481+ 1-90 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	3) DEGREES (P), WITH FOG, NO PRECIDITATION, AND WIND C TANCES. DIOD - 1300 (2397) DESERVATION MOURS: JANUARY 1036 - CCCERS TIRE IN MINUTES 4 - 00 61-90 91-1/2 121-180 181-240 241-360 361-480 481- 1-90 91-4LL 1 ON HOURS AND TENTHS 7 40-80 61-90 91-1/2 121-180 181-240 241-365 361-480 481- 1-90 91-4LL 1.1 1.1 1.1 1.1 TION MINUTES AND TENTHS 7 1ME IN MINUTES 5 40-80 61-90 W1-1/2 121-180 181-240 241-360 361-480 481- 1-90 91-4LL 1.1 1.1 TION MINUTES AND TENTHS 7 1ME IN MINUTES 5 40-80 61-90 W1-1/2 121-180 181-240 241-360 361-480 481- 1-90 91-4LL 63.0 63.0

1400 - 2100 - (29224 GBSERVATION HOURS)

NO OCCURRENCE OF DATA

*****	OF OCCURRE		- 0000	:32877 CB588YATIOH HOURS)				
				TIME IN MINUTES				
CATEGORY 11	L L	l .	01-129	121-180 161-240 241-360 361-460	•#1•	1-90	41-ALL	1-4:1
1110	1 1	1				3		,
1116	1		,	1		1	1 2	1
ili	ī	1	•	i		į	i	í
TOTAL TI-	E 14 EACH D	DURATION HOURS AND	TENTHS					
CATEGORY	1-19 10-30	0 31-43 46-10 61-90	+1-120	TIME IM MINUTES 121-180 181-240 241-360 3e1-480	491+	1-90		1-411
11	., .;					2.1		2.1
1)14						• • •		
11 - 111	.)		1.6	3.0 3.0		. 1	3.0	9.0
111	. 3	1.5		1,0		1.7	1.0	4,7
AYPRAGE 1	TIME IN EACH	M GURATION MINUTES :	AND TEN1	INS Ting in minutes				
CATEGORY	1-11 18-10	0 31-45 46-66 61-90	91-120	121-180 181-200 241-360 361-480	461+	1-90	41-4LL	1-411
1114	15.0 22.0					\$2.0 41.7		22.0
1116				180.0			180.0	100.0
111 - 111	19.0	.0	110.0	180.0		15.0	185.0	101.7
						,,,,	100.0	**.,
PREDUENCY		EMCE ALL		(87672 OBSERVATION MOURS)				
CATEGORY	1-15 10-10	0 31-45 46-40 61-40	*1-120	121-160 161-260 241-360 161-480	461+	1-90	-1-444	1-411
1114	1 1					2		2
1110	•	•				•		-
1116	1	1	1	1		2	1 2	1
111	1	1		1		2	1	,
TOTAL TIP	E IN EACH E	BURATION HOURS AND	TENTH\$	Time in minutes				
CATEGORY	1-15 16-30		*1+120	121-160 181-240 241-340 341-480	481.	1-40	41-ALL	1-411
1114						1.4		3.2
1116				1.0			1.0	3.0
111 + 111	:1	1.1	1.6	9.0		1.3	3.5	4.7
		*				•• '	7.5	•.,
	•	H DUMATEON RENUTES		TIME IN MINUTES				
EATEGORY II	1-19 10-30		#1-120	121-180 181-240 241-560 361-482	461+	1-90	91-411	1-4Li 42.5
1114	19.0 11.0					47.3		47.1
1116	19.0	63 0	110.0	100.0			180.0	100.0
iit '''	19.0	• • • •	,10.0	180.0		91.0	145.0	*1.c

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GIRMINGHAM, INTERNATIONAL

TABLE XV - TEMPERATURE C 33 DECREES (F), WITH FOG, NO PRECEPITATION, AND WIND 9-12 KNOTS.

JANUARY 1936 - DECEMBER 1965

HO DECURRENCE OF DATA

- 23 -

 $\label{eq:definition} \textbf{Birmingham, International} \\ \textbf{Tarlf xvi = Temperature < 29 Degrees IF),}$

JANUARY 1996 - DECEMBER 1965

NO OCCURRENCE OF DATA

SIMPLEMENT SAFET - LEMBERATAGE C SA DECKESS (83) #11H #20' MO BESCIBILATION* TWO MIND C # KHGLE* - DECEMBER 1802

NO CCCURRENCE OF DATA

ATEMINGNEW, INTERNATIONAL TABLE HITT - TEMPPRATURE < 20 CEIRETS (F), WITH FCG, NO PRECIPITATION, AND HIMD SHIP HANTS, ANDREY 1970 - UFCENER 1975

NO OCCURRENCE OF SATA

TABLE XX	- 16 **	RATUR		DETAGE	< 1 i.	41.41	NOHAH. 1	NTERNATI	DNAL						
FREQUENCY						100	30, NO P 255/1 0	BSERVATI	DIE HUURS	D MIND <	Y RAUPAL	1946 -	UECEMBE	A 1965	
CATEGURY	1-15 1	6-10	31-45 4	6-ta 5	1.90 4	1-120-1	71#E 21-187 1	IN MINU 51-240 2	175 41-760 7	01-480	4814	1-90	91-4LL	1-411	
1114	12	;	2	7	1							20	,,	20 13	
1116 111C	1	1	1			1						i	1	2	
11 + 111	2	3	2		2	1	1					10	i i	11	
TOTAL TIM	E IN EA	CH DUI	RATION	HOURS	AND TE	NTHS						·	•	•	
CATEGORY	1-15 1	6-10	31-45 4	.6-60 6	1-90 9	1-120 1	71#8 1-180 1-15	IN MINU 81-240 2	TES 41-360 3	61-480	481+	1-90	91-ALL	1-411	
II	1.9	1.5	2.1	. 8	1.1							5.0		5.2	
1118 1110	• 5	. 7	. 5			1.9						1.5	1.9	1.5	
11 • 111	.7	1.3	1.5		2.1	1.9	2.1					5.1	2.1	7.2	
AVERAGE T	IME IN		DURATIO	N 4140	ITES AN	ID TENTH	ıs						•••		
CATEGORY								IN MINU		01-480	4814	1 90	91-ALL	1-ALL	
11 1114	9.3	23.8	98.0	-8.0	65.0							19.8		19.8	
111B 111C		19 5	17.0			114.0						22.5	114.0	22.5	
111	10.5	23.5	44.0		63.2	114.0	127.0					30.3	127.0	39.1	
	• • • • •	,			1500 -	- 2100	(20224		ton Hours	t 1		• • • • •	114.0	70.3	
FREQUENCY	C* UC(URREN	C€		. 400			IN HIN		• •					
CATEGORY 11				40-60	09-10	+1-120	121-180	81-240	241-360	361-480	481+	1-90	91-ALL	1-ALL	
111A 1118	1	2	2				1	1				6	1	7	
1110		1	1							1		1	1	1 2	
111 • 111	1	2	2		1			1			1	3	2		
TOTAL TIP	E IN E	CH DU	RATION	HOURS	AND T	ENTHS									
CAYEGORY				46-60	61-90 ·	91-120	T MI 121-180			361-480	481+	1-90	91-ALL	1-ALL	
II	.2	1.6	1.3				3.0	3.2				2.1	3.2 3.0	5.3 4.7	
1116		.4	. 6							7.8		.6	7.8	8.2	
11 + 11!	. 1	. 8	1.3		1.1			3.2			9.0 8.3	3.3	12.2	15.5	
AVERAGE '	TIME IN		DURATI	ON MIN	-	NO TENT	ыS					• • • • • • • • • • • • • • • • • • • •			
CATEGORY								E IN HIN		1A1-480	461+	190	91-ALL	1-411	
II		16.5	39.0	40-00	0,0	,,-,,	180.0	192.0	141-300	30,1-400		20.8	192.0	45.3	
1118 1110	0.0	23.0	34.0							470.0		34.0	470.0	34.0	
111 + 111	6.0	23.0	39.0		67.0			192.0		470,0	540.0	32.8	360.0	116.1	
					4 3 /3						E00 0	34 1		141 8	
111		22.5			52.0		. 43.57		**** 1.501	• .	500.0	35.7	500.0	151.8	
FREQUENC	Y DF DC		iC F			- 0400		OBSERVAT	TON HOUR	.\$ 1	500.0	35.7		151.8	
FREQUENC CATEGORY	1-15	CURRE!	31-45		2200 61-90	91-120	TTM 121-180	OBSERVAT E in min	UTF5 241-360		500.0	1-90	91-ALL	1-Att	
FREQUENC CATEGORY II IIIA	1-15 34 16	CURREP 16-30 35 9	31-45 13 15	13	2200 61-90	91-120 8 7	TTM 121-180 2 5	OBSERVAT E IN MIN 181-240 1 2	UTF\$ 241-360 1			1-90 104 93	91-ALL 12	1-Att 116	
FREQUENC CATEGORY II IIIA IIIB IIIC	1-15 34 16 6	CURRE 16-30 35 9 5	31-45 13 15 2	13 7 2 1	2200 61-90 9 6	91-120 8 7 4	TTM 121-180 2 5 3	OBSERVAT E IN MIN 181-240 1 2 1 1	UTF5 241-360 1 4 3	361+480	48)+	1-90 104 93 18	91-ALL 12 13 11	1-ALL 116 60 29 14	
FREQUENC CATEGORY II IIIA IIIB	1-15 34 16	CURRE 16-30 35 9 5	31-45 13 15 2	13 7 2	2200	91-120 8 7 4	TTM 121-180 2 5 3	OBSERVAT E IN MIN 181-240 1 2	UTF5 241-360 1 4			1-90 104 93 18	91-ALL 12 13	1-ALL 116 66 29	
FREQUENC CATEGORY II IIIA IIIB IIIC II + III	1-15 34 10 0	CURREP 16-30 35 9 5 3 20 6	31-45 13 15 2 1 16	13 7 2 1 13	2200 61-90 9 6 3 1	91-120 8 7 4 2 16 7	TIM 121-180 2 5 3 2 13 4	OBSERVAT E IN MIN 181-240 1 2 1 1 3	UTF5 241-360 1 4 3 1 19	361+480	481+	1-90 104 93 18 8	91-ALL 12 13 11	1-ALL 116 60 29 14 125	
FREQUENC CATEGORY II IIIA IIIB IIIC II + III	1-15 34 10 0 14 0	CURRE 16-30 35 9 5 3 20 6	31-45 13 15 2 1 16 9	13 7 2 1 13 8 HOURS	2200 61-90 9 6 1 1 1 1 9	91-120 8 7 4 2 10 7	TIM 121-180 2 5 3 2 13 4	OBSERVAT © IN MIN 181-240 1 2 1 3 3	UTFS 241-360 1 4 3 1 13 11	361-480	481+	1-90 104 93 18 8	91-ALL 12 13 11	1-ALL 116 60 29 14 125	
PREQUENC CATEGORY II IA II IA II IC II • III III	1-15 34 10 0 14 0	CURRE 16-30 35 9 5 3 20 6	31-45 13 15 2 1 16 9	13 7 2 1 13 8 HOURS	2200 61-90 9 6 3 1 1	91-120 8 7 4 2 10 7	TIM 121-180 2 3 3 2 13 4	OBSERVAT © IN MIN 181-240 1 2 1 3 3	UTFS 241-360 1 4 3 1 13 11	361-480	481+	1-90 104 93 18 8 77	91-ALL 12 13 11 0 48 27	1-ALL 116 60 29 14 125	
FREQUENC CATEGORY II IIIA IIIB IIIC II + III III TOTAL TI CATEGORY II	1-15 34 10 6 14 6 ME IN 6	CURREY 16-30 35 35 37 20 6 ACH D' 16-30 14.0 3.3 2.1	31-45 13 15 2 1 16 9 JRA*IUN 31-45 8.6 10.0 1.3	13 7 2 1 13 8 4 HOURS	7200 61-90 9 6 1 1 1 1 3 6 8 8 8 8 8 8 9 9 8 8 1 1 1 9 9 8 8 1 1 1 1	91-120 8 7 4 2 16 7 ENTHS 91-120 13.8	TIM 121-180 2 5 7 2 13 4 121-180 5-1 12.8	DBSERVAT E IN MIN 181-240 3.1 6.0 3.8	AUTFS 241-360 6.3 18.8 13.2	361-480	481+	1-90 104 13 18 6 77 38	91-ALL 12 13 11 0 48 27	1-ALL 116 00 29 14 125 05	
FREQUENC CATEGORY II IIIA IIII IIIC III - III TOTAL TI CATEGORY II IIIA IIIB	1-15 34 16 6 14 6 1-15 6.9 3.2 1.2	CURREY 16-30 35 35 3 20 6 ACH D' 16-30 14.0 3.3	31-45 13 15 2 1 1 16 9 JRA*IUN 31-45 8.6 10.0 1.3	13 7 2 1 13 8 4 HOURS	2200 61-90 9 6 1 1. 1. 9 61-90 11.9 7.5 3.6 3.7	91-120 8 7 4 2 16 7 ENTHS 91-120 13.8 3.3 6.6 3.6	TIM 121-180 2 5 2 13 4 121-180 5-1 121-180	OBSERVAT E IN MINITED 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	WUTFS 241-360 1 6 9 11 1	361-480	1 1 +81+	1-90 10+ 13 18 8 77 38 1-90 52.6 10.3 6.4	91-ALL 12 13 11 0 48 27	1-ALL 116 00 29 14 125 05	
FREQUENC CATEGORY III IIII IIII III III TOTAL TI CATEGORY IIIA IIII IIII IIII	1-15 34 16 6 14 6 1-15 6.9 3.2 1.2	CURRE' 16-30 35 35 20 6 ACH D' 16-30 14-0 3.3 2.1 1.2 8.1	31-45 13 15 2 1 16 9 JRATION 31-45 8.6 10.0 1.3	13 7 2 1 13 8 4 HOURS 46-60 11.4 6.5 2.0 1.0	2200 61-90 9 6 3 1 1. 9 6 AND T 61-90 11.9 7.5 3.7 18.1	91-120 8 7 4 2 16 7 'ENTHS 91-120 13.8 3.3 6.6 27.4	TTM 121-180 2 5 5 2 13 4 7 M 121-180 5-1 12.8 6.8 4.8 33.2 9.6	OBSERVAT E IN MIN 181-240 3-1 6-0 3-8 3-8	UTFS 241-360 1 4 3 1 19 11 4UTFS 241-360 4,3 18.8 13.2 4,5	361-480 2 1 361-480	481+	1-90 104 93 18 6 77 38 1-90 52.6 29.6	91-ALL 12 13 11 0 48 27 91-ALL 20.2 40.1 17.6 17.6	1-ALL 116 00 29 14 125 05 1-ALL 78.8 60.5 39.1 24.7 210.1	
FREQUENC CATEGORY IIIA IIIA IIII III III CATEGORY IIIA IIIA IIIA IIIC III CATEGORY IIIA IIIC IIIC IIIC	1-15 34 10 6 14 6 1-15 6.9 3.2 1.2 3.1 1.5 7 IME IP	CURRE- 16-30 35 35 20 6 ACH D- 16-30 14-0 3.3 2.1 1.2 8.1 2.3	31-45 13 15 2 1 1 1 1 6 9 9 9 9 9 9 9 9 13-45 8.6 10.0 10.0 10.0 6-1 10.0 6-1	13 7 2 1 13 8 4 HDURS 46-60 11.4 6.5 2.0 1.0 11.0	2200 61-90 9 6 3 1 1 1 9 6 8 8 8 8 9 7 7 5 3 6 3 7 7 5 1 1 1 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	91-120 8 7 4 2 10 7 7 YENTHS 91-120 13.8 3.3 6.0 27.4 11.7	TTM 121-180 2 5 7 2 13 4 121-180 5.1 121-180 6.8 6.8 4.8 33.2 9.6	OBSERVAT E IN MIN 181-240 1 1 2 1 1 3 3 3 E IN MIN 181-240 3.8 3.8 4.7 10.1	UUTFS 241-360 1 4 5 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	361-480 ? : 361-480	1 1 +81+	1-90 104 13 18 8 77 38 1-90 29.6 10.3 6.4 51.3	91-ALL 12 13 11 0 48 27 91-ALL 20.2 40.1 17.6 17.6	1-ALL 116 00 29 14 125 05 1-ALL 78.8 60.5 39.1 24.7 210.1	
FREQUENC CATECORY II IIIA IIIB IIIC II + III III TOTAL TI CATEGORY IIIA IIIB IIIC IIIC IIIC IIIC IIIC IIIC	1-15 34 16 6 14 6 1-15 6.9 3-2 1-2 7IME IN 1-15 12-1	CURRE' 16-30 35 35 20 6 ACH D' 16-30 14.0 3.3 2.1 1.2 8.11 2.3	31-45 13 15 2 1 16 9 JRATIUN 31-45 8.6 10.0 6.1 DJRAT	13 7 2 1 13 8 46-60 11.4 6.5 2.0 11.4 7.3	2200 61-90 9 6 1 1 61-90 11.9 7.5 3.7 18.1 18.1 18.1 18.1 18.1 18.1 18.1 18	91-120 8 7 4 2 16 7 TENTHS 91-120 13.8 3.3 6.6 3.6 27.4 11.7	TTM 121-180 2 5 7 2 13 4 121-180 6.8 6.8 33.2 7,6 7HS 7111 121-180 121-180 121-180 121-180 121-180	OBSERVAT E IN MIN 181-240 1 1 2 1 1 3 3 3 IF IN MIN 161-240 3,6 3,6 4,7 10,1 IE IN MIN 181-240 183-0	UTFS 241-360 11 19 11 11 11 11 11 11 11 11 11 11 11	361-480 ? : 361-480	481+ 1 1 481+ 8.6 8.1	1-90 104 13 18 8 77 38 1-90 52.6 29.6 10.3 51.3 28.6	91-ALL 12 13 11 0 0 48 5 27 91-ALL 20.2 40.1 29.0 17.0 158.8 98.5	1-ALL 110 00 29 14 125 05	
FREQUENC CATECORY III IIII IIII IIII TOTAL TI CATEGORY III IIII IIII IIII AVERAGE CATEGORY III IIII IIII AVERAGE CATEGORY III IIII	1-15 34 16 6 14 6 1-15 6.9 3.2 1.2 3-1 1.5 7 IME IN	CURRE' 16-30 35 30 6 ACH D' 16-30 14.0 3.7 2.1 1.2 8.1 2.3 4 EACH 16-30 23.9 21.7 24.6	31-45 13 15 2 1 16 9 JRATIUN 31-45 8.6 10.0 10.0 10.0 6.1 0.1 31-45 39.6 39.6	13 7 2 1 13 8 4 HOURS 46-60 11.4 7.3 1DN HIN 46-60 52.4 55.7	2200 61-90 9 6 1 1 1 1 1 9 6 AND T 81-90 75.5 3.6 3.7 18-1 11-2 79.0 79.0 75.0 75.0	91-120 8 7 4 2 16 7 TENTHS 91-120 13-8 3-3 6-6 3-6 27-4 11-7 100 TEN 91-120 103-1 94-7 94-7	TIM 121-180 2 5 3 7 13 4 TIM 121-180 13-18 4.8 33-2 7-18 121-180 133-4 135-6 135-6 135-6 135-6	OBSERVAT E IN MINI 181-240 1 1 3 3 F IN MIN 181-240 3.8 3.8 4.7 7 10.1 161-240 197.0 239.0	UTFS 241-360 1 1 4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	361-480 ? : 361-480	481+ 1 1 481+ 8.6 8.1	1-90 104 18 8 6 77 38 1-90 52.6 6.4 51.3 28.4	91-ALL 12 13 11 1 0 0 48 27 11 29.0 0 17.0 113.8 98.3	1-ALL 116 06 29 14 125 05 1-ALL 78.8 60.9 1-ALL 40.8 60.4	
FREQUENC CATECORY IIIA IIIB IIIC II + III TOTAL TI CATEGORY IIIA IIIB IIIC II + IIII III AVERAGE CATEGORY III IIII IIII IIII IIII IIII IIII II	1-15 34 16 6 14 6 1-15 6.9 3.2 1.2 3.1 1.5 7 IME IP 1-15 12.1 11.7	CURRE' 16-30 35 9 5 3 20 6 ACH D' 16-30 14.0 3.3 2.1 1.2 8.1 2.3 4 EACH 16-30 23.9 21.7 24.0 24.0 24.0	31-45 13 15 2 1 16 9 JRATIUN 31-45 8.0 10.0 10.0 6.1 DJRAT; 31-45 39.0 39.6 39.5 39.5	13 7 2 1 13 8 4 HOURS 46-60 11.4 7.3 IDN HIN 46-60 52.4 55.7 50.0 60.0	2200 61-90 9 6 1 1 1 1 1 1 9 6 1-90 7 18-1 11-2 11-2 11-2 11-2 79-0 79-0 79-0 79-0 79-0 79-0 79-0 79-0	91-120 8 7 4 2 16 7 TENTHS 91-120 13.8 3.3 6.6 27.4 11.7 91-120 103.1 94.9 106.7 107.1	TIM 121-180 2 5 3 7 12 13 4 71M 121-180 133-4 135-0	OBSERVAT E IN MIN 181-240 13 3 3 5 18 18 240 3.6 6 3.8 9.7 10.1 181-240 197.0 229.7 194.3	UTFS 241-360 1	361-480 2 1 361-480 14.4 6.8 361-480	481+ 1 1 481+ 8.6 8.1	1-90 104 93 18 8 77 38 1-90 52.6 51.3 28.6	91-ALL 12 13 11 1 0 0 48 27 11 29.6 17.6 11 130.9 188.2 101.5 175.6 175.	1-ALL 116 66 29 14 125 65 1-ALL 78.8 66.9 39.1 24.7 210.1 126.9	
FREQUENC CATEGORY II II III IIII III TOTAL TI CATEGORY III IIII III AVERAGE CATEGORY II III III III III III III III III II	1-15 34 16 6 14 6 1-15 6.9 3.2 1.2 3.1 1.5 7 IME IP 1-15 12.1 11.7	CURRE' 16-30 35 9 5 3 20 6 ACH D' 16-30 14.0 3.3 2.1 1.2 8.1 2.3 4 EACH 16-30 23.9 21.7 24.0 24.0 24.0	31-45 13 15 2 1 16 9 JRATIO 31-45 8.6 10.0 10.0 10.0 6.1 DJRATI 31-45 39.6 39.6 39.5 39.5	13 7 2 1 13 8 4 HOURS 46-60 11.4 7.3 IDN HIN 46-60 52.4 55.7 50.0 60.0	2200 61-90 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91-120 8 7 4 2 16 7 110 7 111.8 3.3 6.6 27.6 111.7 91-120 107.1 94.7 94.7 94.7	TIM 121-180 5 7 13 4 121-180 5.1 121-180 6.8 4.8 3.1 12.8 7 10 121-180 12.8 13 14 13 13 14 15 16 17 18 18 18 19 19 19 19 19 19 19 19 19 19	OBSERVAT E IN HIN 181-240 3.1 181-240 3.8 3.8 4.7 10.1 E IN MIN 181-240 197.0 220.0	HUTFS 241-960 1 1 3 3 13 13 11 11 127FS 241-960 3 18.08 17.2 4.5 65.7 97.3 HUTFS 201-960 201.9 703.7 700.7	361-480 2 1 361-480 14.4 6.8 361-480	*81* *81* *81*	1~90 10% 18 8 77 38 1-90 52.66 10.3 61.3 28.4	91-ALL 12 13 11 1 0 0 48 27 11 29.6 17.6 11 130.9 188.2 101.5 175.6 175.	1-ALL 1000 2914 12500 1-ALL 78.860.5 39.1 24.7 210.1 126.9 1-ALL 40.8 60.4 80.9	
FREQUENC CATECORY IIIA IIIB IIIC II + III TOTAL TI CATEGORY IIIA IIIB IIIC II + IIII III AVERAGE CATEGORY III IIII IIII IIII IIII IIII IIII II	1-15 34 16 6 14 6 1-15 6.9 3.2 1.2 1.5 7 IME IP 1-15 1-15 1-11.9 11.7	CURRE* 16-30 35 35 20 6 ACM 0* 16-30 14-00 21-1 2-3 4 EACM 10-30 21-1 2-3 4 EACM 23-9 21-7 24-6 25-2 23-3	31-45 13 15 2 1 1 16 9 31-45 8.6 10.0 1.3 10.0 10.0 10.0 10.0 10.0 10.0	13 7 2 1 13 8 4 HOURS 46-60 11.4 7.3 IDN HIN 46-60 52.4 55.7 50.0 60.0	2200 61-90 9 6 1 1 1 1 1 1 9 6 1-90 7 18-1 11-2 11-2 11-2 11-2 79-0 79-0 79-0 79-0 79-0 79-0 79-0 79-0	91-120 8 7 4 2 16 7 TENTHS 91-120 13.8 3.3 6.6 27.4 11.7 91-120 103.1 94.9 106.7 107.1	TIM 121-180 5 7 13 4 7 121-180 5.1 12.8 6.8 6.8 6.8 7.0 15.7 121-180 15.7	OBSERVATE E IN MINITED AND ADDRESS OF THE PAGE 18 AND ADDRESS OF THE PAGE 1	HUTFS 241-360 3 3 113 113 117 241-360 3 18.08 17.2 4.5 65.7 97.3 HUTFS 241-360 255.0 255.0 261.9 262.7 262.7 262.7 262.7 2787.1	361-480 2 1 361-480 14.4 6.8 361-480	481+ 1 1 481+ 8.6 8.1	1-90 104 93 18 8 77 38 1-90 52.6 51.3 28.6	91-ALL 12 13 11 1 0 0 48 27 11 29.6 17.6 11 130.9 188.2 101.5 175.6 175.	1-ALL 116 66 29 14 125 65 1-ALL 78.8 66.9 39.1 24.7 210.1 126.9	
FREQUENC CATECORY IIIA IIIB IIIC II + III TOTAL TI CATEGORY III AVERAGE CATEGORY III IIIC IIIC IIIC IIIC IIIC IIIC III	1-15 34 10 6 14 6 1-15 6.9 3.2 1.2 1.3 7 IME IP 1-15 12.1 11.9 11.7	CURRE: 16-30 35 36 37 30 60 ACM 0' 16-30 3.3 2.1 1.2 3.3 4.1 2.3 4.1 2.3 4.1 2.3 4.1 2.3 4.1 2.3 4.2 2.1 2.3 2.1 2.3 2.1 2.3 2.1 2.3 2.1 2.3 2.1 2.3 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	31-45 13 15 15 16 9 JRATIUN 31-45 10.0 6.1 10.0 6.1 31-45 39.6 39.5 39.6 39.5 39.6 40.6	19 72 1 13 8 4 HOURS 46-60 11.4 6.5 2.0 11.4 7.3 1DN 410 46-60 52.7 52.6 52.6 53.8	2200 61-90 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91-120 7 4 2 16 7 ENTHS 91-120 13.8 3.6 27.4 11.7 NNO TEN' 91-120 103.1 94.9 106.3 102.7 102.7	TIM 121-180 5 5 7 7 13 4 121-180 5.1 12.8 6.8 6.8 6.8 6.8 33.2 9.6 TMS 121-180 153.7 153.7 153.7 164.3 157.7 167.7 121-180	OBSERVATE E IN MINI 181-240 1 1 1 3 3 3 1 E IN MINI 181-240 1 3.1 6.6 3.8 3.8 4.7 1 10.1 181-240 1 193-0 194-3 202-0 CBSERVATE IN MINI 181-240 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UTFS 241-360 1	361-480 2 1 361-480 14.4 6.8 361-480 431.0 406.0	481+ 1 1 481+ 8.6 8.1	1-90 104 93 16 6 77 38 1-90 52,6 51,3 28,4 1-90 30,3 33,5 33,5 33,5 34,4 44,8	91-ALL 12 13 11 10 0 0 6 27 11 1 29 0 0 17 0 18 0 18 0 18 0 18 0 18 0 18 0	1-ALL 116 06 29 14 125 05 1-ALL 78.8 60.9 39.1 24.7 210.1 126.9	
FREQUENC CATECORY IIIA IIIB IIIC II - III TOTAL TI CATEGORY III AVERAGE CATEGORY III IIIC IIIC IIIC IIIC IIIC IIIC III	1-15 34 16 6 14 6 1-15 6.9 3.2 3-1 1-5 7 IME IP 12-1 11-9 11-9 11-9 11-8	CURRE: 16-30 35 36 37 30 60 ACM 0' 16-30 3.3 2.1 1.2 3.3 4. EACM 16-30 23, 9 24.2 24.2 23.3 3.2 24.2 23.3 3.3 4.2 24.2 25.2 26.2 27.3 2	31-45 13 15 2 1 16 10 31-45 8.6 10.0 10.0 10.0 6.1 10.0 31-45 39.6 39.5 39.5 39.6 40.6	19 7 2 13 8 8 46-60 11.4 6.5 2.0 11.4 7.3 10N 41 46-60 52.4 53.7 50.0 52.6 52.6	2200 61-90 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91-120 7 4 2 16 7 18 17 18 11 13 13 13 16 27 16 27 17 18 11 11 12 13 13 13 13 13 13 13 13 13 13	TIM 121-180 5 5 7 7 2 13 4 7 121-180 6 6 8 6 8 33.2 9.6 TMS 112-180 133-9 103-9 133-9 140-3 130-9 140-3	OBSERVATE E IN MINITED AND ADDRESS OF THE PARTY OF THE PA	UTFS 241-360 1 4 3 3 1 19 11 13 13 17 18.08 17.2 4.5 65.7 57.3 18.08 255.0 255	361-480 2 1 361-480 14.4 6.8 361-480 431.0 406.0	48)+ 1 1 1 481+ 8,6 8,1 481+ 510,0 480,0	1-90 104 53 16 6 77 38 1-90 52,6 51,3 28,4 1-90 30,3 33,5 34,3 48,4 44,8	91-ALL 12 13 11 10 0 0 6 77 11 11 12 12 13 11 1 12 12 12 12 12 12 12 12 12 12 12 1	1-ALL 116 06 29 14 125 05 1-ALL 78.8 60.9 39.1 24.7 210.1 126.9	
FREQUENC CATECORY IIIA IIIB IIIC II - III III TOTAL TI CATEGORY III AVERAGE CATEGORY III IIIC IIIC IIIC IIIC IIIC IIIC III	1-19 34 16 6 14 6 14 16 17 18 19 11 11 11 11 11 11 11 11 11 11 11 11	CURRE: 10-30 35 9 9 3 2 0 6 ACH D' 16-30 14-00 23-9 21-1 22-0-0 23-9 21-0 21-0 21-0 21-0 21-0 21-0 21-0 21-0	31-45 13 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	19 7 7 2 1 1 1 1 3 1 8 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2200 61-90 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91-120 7 4 2 16 6 7 17 18 11 13 13 13 13 13 13 13 13 13	TIM 121-180 5 5 7 2 13 4 7 111 121-180 6.8 6.8 6.8 33.2 9.6 7 10 121-180 133.9 133.9 140.3 140.3 140.3 150.3 160.3 170.3 1	OBSERVAT TO 10 1 1 2 1 1 1 1 1 2 4 0 1 1 2 4 0 1 1 2 4 0 1 1 2 4 0 1 1 2 2 0 1 1 2 2 0 2 2 2 1 1 1 1 1 1	UTFS 241-360 1 4 3 3 1 19 111 131 131 131 131 131 131 131 131 1	361-480 2: 361-480 14.4 6.8 361-480 431.0 400.0	8,6 8,6 8,1 481+	1-90 104 93 16 6 77 38 1-90 52.0 29.0 10.3 30.3 33.5 33.5 33.5 33.5 48.4 4.8	91-ALL 12 13 11 10 0 0 0 17 0 17 0 17 0 17 0 17 0	1-ALL 116 06 29 14 125 05 1-ALL 78.8 66.9 39.1 24.7 210.1 126.9 1-ALL 40.8 60.4 80.9 106.2 100.6 117.1	
FREQUENC CATEGORY II IA III III III III TOTAL TI CATEGORY III A III III III AVERAGE CATEGORY II III FREQUENC CATEGORY II III FREQUENC CATEGORY II III III FREQUENC CATEGORY II IIII IIII IIIIIIIIIIIIIIIIIIIIIII	1-15 34 16 6 1-16 1-15 6-9 3-2 3-1 1-5 7 IME IP 12-1 11-9 11-9 11-8 (V OF OI)	CURRE 35 35 30 20 6 ACM 0° 16-30 11-2 23 21 2-3 4 EACH 10-30 24-10-24 24-10-24 24-10-30 24	31-45 13 13 15 2 2 1 1 10 31-45 8.6 10:0 6:1 10:0 6:1 10:0 6:1 10:0 39:6 39:6 39:6 39:6 39:6 10:0 10:0 10:0 10:0 10:0 10:0 10:0 10	19 7 7 2 1 1 1 1 3 1 8 8 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2200 61-90 9 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91-120 67 42 100 7 TENTHS 91-120 13.8 3.0 27.4 11.7 107.1 94.7 107.7 107.7 91-120 94.7 107.7	TIM 121-180 5 5 7 2 13 4 7 111 121-180 6.8 6.8 6.8 33.2 9.6 7 10 121-180 133.9 133.9 140.3 140.3 140.3 150.3 160.3 170.3 1	OBSERVAT E IN MINI 181-240 1 1 1 3 3 3 E IN MIN 181-240 5.6 6 3.8 3.8 4.7 7 10.1 181-240 197.0 220.5 190.2 CBSERVA* OBSERVA*	UTF5 241-360 4 3 1 13 11 17 17 17 17 18 18 17 18 18 17 18 18 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	361-480 2 1 361-480 14.4 6.8 361-480 431.0 400.0	48)+ 1 1 1 481+ 8,6 8,1 481+ 510,0 480,0	1-90 104 93 108 6 6 77 38 1-90 29.6 51.3 28.6 1-90 30.3 33.3 34.3 46.0 40.0 44.8	91-ALL 12 13 11 10 0 0 0 17 0 17 0 17 0 17 0 17 0	1-ALL 116 00 20 14 125 39-17 210-1 126-9 106-2 100-8 117-1	
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111	1.5	. 9	. 1	1.3	1.3	1.9	2.1					5.3	4.0	7.4	
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II IIIA	10.2	25.0	•0.J	34.0	71.7	0.901	121-190	181-240	241-360	361-480	4814	1-90 23.0 25.1	91-ALL 109.0 118.0	1-ALL 25.2 31.9	
1118	12.7	23.0	37.3			114.0	11.,0					21.3	114.0	24.9	
111 • 111	11.5	23.3	0	60.0		114.5	127.0					27.6	118.7	37.4 40.1	
FAFQUENCS): טר	(JAREN	1 C F		1400	~ 2100	(29224	OBSERVAT	ION HOJR	5)					
CATEGORY	1 - 1 5	15-30	31-+5		61-90	91-120		E IN M1N 181-740		361-480	461+	:-90	91-ALL	1-444	
1114	2.	5	5	1			1	1				32 15	1	33 16	
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TOTAL TI								E IN HIN			. = .				
CATEGURY II IIIA	1-15 3.0 1.6	1.9	31-45	1.0	61-95	¥1-120	121-180	181-240	Z41-360	361-480	481+	1-90 8.9 5.5	91-ALL 3.2 3.0	1-ALL 12.1 6.6	
1116 1110	.1			•••			,,,			7.8		. 8	7.8	2.7	
11 + 111	3.4	2.1	2.4	1.8	2.6			3,2			9.0 B.3	12.3	12.2	24.5 13.0	
AVERAGE	11*E 1	4 EACH	DUP 4 1 5	104 414	AUTES A	140 TENT		ue 11, m1,							
CATEGORY	1-15	16-30	31-45	46-63	51-90	¥1-120	121-150	ME IN MIN 181-240 192.0	241-360	361-480	481+	1-90	91-ALL 192-0	1-ALL 22.0	
111A 111B	10.0	25.2	40.3 34.0	60.0			180.0	*****				22.1	180.0	24.7 80.5	
1116	8.7 9.0	23.0 25.2 23.3	36.0	55.0	77.0			197.0		470.0	540.0	12.0 20.4 21.5	470.0 366.0 500.0	126.5 38.6 35.7	
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FREQUENC							TI	OBSERVAT	NUTES						
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CATEGORY II IIIA IIIB	1-15 39 21	16-30 36 11	31-45 20 15 2 1	17	61-90	91-120 9 4	T1 121-180 2 7	HE IN HIP 181-240 2 2	NUTFS 241-360 1 4			1-90 134 59	14 17 11	148 76 30	
CATEGURY 11 1114 1116 1110 11 • 111	1-15 39 21 6	16-30 38 11 5 2 22 7	31-45 20 15 7 1 23	17 4 2 1 1* 5	61-90 14 8 3 13	91-120 9 4 4 2 17	TI 121-180 2 7 3 2 16 6	ME IN MIP 181-240 2 2 1 1 7	NUTFS 241-360 1 4 3 1 12	361-460	+6 1+	1-90 134 59 19	14 17 11 6	148 76 30 13	
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CATEGORY 11 1114 1116 1117 1117 1118 1119 11114 1119 1111 1111 1111 111	1-15 39 21 6 14 17 1-15 1-16 17 17 17 17 17 17 17 17 17 17 17 17 17	16-30 38 38 38 38 38 38 32 22 22 22 22 22 22 30 40 40 22 20 30 40 40 20 20 40 40 40 40 40 40 40 40 40 40 40 40 40	31-45 20 20 20 21 21 21 21 22 23 24 24 24 24 24 24 24 24 26 27 24 24 26 27 24 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 24 26 27 21 26 27 27 27 27 27 27 27 27 27 27 27 27 27	177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	61-90 14 8 8 8 13 11 55 440 110 110 110 110 110 110 110 110 110	91-120 4 2 17 10 TENTHS 91-120 13.6 3.6 3.6 3.6 3.6 3.7 107.7 108.8 107.6 107	T11 121-180 7 7 7 7 2 166 121-180 6.8 4.3 17.0 121-180	ME IN MIP 181-240 2 2 1 1 7 7 ME IN MIP 181-740 181-740 181-740 195-0 195-0 108-1 101-1 ME IN MIP 1101-240 195-0	NUTFS 241-360 4 3 1 12 12 11 NUTFS 241-360 13.7 61.6 53.7 61.6 53.7 709.7 709.7 709.7 709.7 110N MQU NUTFS 1 1 17 11 NUTFS 241-360 13 14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	361-480 29.2 6.8 361-480 361-480 361-480	*81. *81. *81. *81. *81.	1-900 134-59 199 199 748-62 1-90 33.3,31.5-5 568-29-1 1-90 205 81.5-2 1-90 98.3,34.5-5 1-90 98.3,34.5-5 1-90 98.3,34.5-5	91-ALL 130.4 50.0 17.6 197.0 110.2 91-ALL 130.3 131-3	1-ALL 104.8 76.0 130 130 130 130 141.3 231.6 231	120.0
CATEGORY 11 1114 1116 1117 1117 1118 1119 1111 1111 AVERAGE CATEGORY 11 1111 1111 1111 1111 1111 1111 111	1-15 39 21 0 14 1-15 1-16 1-17 1-17 1-17 1-17 1-17 1-17 1-17	16-30 36 31 15 31 31 31 32 72 72 72 72 73 74 72 73 74 75 76 77 76 77 76 76 76 76 77 76 76 76 77 76 77 77	31-45 20 20 20 20 21 21 21 22 23 31-45 24 24 25 26 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	61-90 14 3 3 11 5 440 11-15 5 470 11-15 61-90 77-15 61	91-120 4	T11 121-180 7 7 7 7 2 166 121-180 6.8 4.3 17.0 121-180	ME IN MIT 181-240 2 2 2 1 1 7 7 9 1 181-740 181-740 181-740 195.0	NUTFS 241-360 1 2 12 11 NUTFS 241-300 13.7 61.6 53.7 61.6 53.7 709.7 709.7 709.7 710N MUUFS 241-360 11 12 11 NUTFS 241-360 13.7 4.7 300.2 11 17 11 11	361-480 29.2 6.8 361-480 361-480 361-480 7.8	*81. *81. *81. *81. *81. *81. *81.	1-900 134-59 199 199 190 74.4. 29.1 1-90 33.3 30.4. 29.1 1-90 20.5 6.4. 29.1 1-90	91-ALL 130.3 170.3	1-ALL 104.8 78.0 139.1 145.7 74.0 104.8 78.0 273.6 273.6 273.6 139.3 1-ALL 271.0 104.9 112.9	126.0
CATEGORY 11 1116 1117 1117 1117 1117 1117 1117	1-15 39 21 0 14 17 1-15 17 16 17 1-15 17 17 17 17 17 17 17 17 17 17 17 17 17	16-30 36 16 17 17 18 2 2 2 2 2 2 2 2 2 3 4 4 2 2 7 4 2 2 7 4 1 2 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31-45 20 20 20 20 20 20 20 20 20 20 20 20 20	177 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	61-90 14 8 8 8 8 13 11 5 AND 16:00 18:0 18:0 18:0 18:0 18:0 18:0 18:0 1	91-120 4 2 17 10 TENTHS 91-120 15.6 3.6 3.6 29.1 17.4 4NO TEN VI-120 103.7 104.8 107.6 103.7 104.8 107.6 107.6 107.7 108.8 107.6 107.7 108.8 109.8 117.6 117	TI 121-180 7 7 7 9 2 18 6 6 6 121-180 6 121-180 6 121-180 7 17 121-180 7 121	ME IN MIP 181-240 2 2 2 1 1 7 7 7 ME IN MIP 181-240 6-5 3 6-6 5 1-6 6-5 3 10-1 1 181-240 185-0 0 185-0	NUTFS 241-360 12 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	361-480 29.2 6.8 361-480 361-480 11 400.0 RS1 361-480 7.8 29.2	*81. *81. *81. *81. *81. *81. *81.	1-900 134 59 19 19 19 20 1-900 31.3 11.5 56.4 29 11 1-900 20 58 20 11 1-900 11 1-900 11 11 11 11 11 11 11 11 11 11 11 11 1	91-ALL 100.5 101.2 101.2 101.2 101.2 101.2 101.3	1-ALL 104.8 76.0 130 130 130 141.3 231.6 2	120.0
CATEGORY 11 1116 1117 1117 1117 1117 1117 1118 1118	1-15 39 21 0 14 16 17 1-15 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	16-30 38 31 15 2 2 2 2 2 2 2 2 2 2 16-30 4 2 2 7 4 2 2 7 8 8 16-30 8 1	31-45 20 20 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	177 4 40 40 40 40 40 40 40 40 40 40 40 40 4	61-90 14 8 8 8 13 11 15 440 160 160 160 160 160 17 17 17 17 17 17 17 17 17 17 17 17 17	91-120 4 2 17 10 TENTHS 91-120 15.6 29.1 17.4 AND TEN 91-120 103.7 104.6 104.6 91-120 104.6	TIL 121-180 7 7 7 7 2 186 6 121-180 6.8 44.2 11-21-180 129.5 149.5 149.5 121-180 121-180 121-180 121-180 121-180 121-180 121-180 14-13 14-	ME IN MIP 181-240 2 2 2 1 1 7 7 7 ME IN MIP 181-240 6.5 3 6.6 3 10.1 1 181-240 188.0 0 188.0 0 198.0 0 249.5 7 249.5 7 259.6 0	NUTES 241-360 4 3 1 12 11 NUTES 241-360 4.3 20.0 13.7 61.6 33.3 NUTES 241-360 271.0 NUTES 241-360 11 12 12 NUTES 241-360 13.7 15.7 16.6 17 17 18 NUTES 241-360 17 18 NUTES 241-360 18 18 18 18 18 NUTES 241-360 18 18 18 18 18 18 18 18 18 18 18 18 18	301-480 29.2 6.8 301-480 301-480 14 13 301-480 7.8 29.2 6.8	*81. *81. *81. *81. *81. *81.	1-90 134 59 19 19 19 20 1-90 31.3 11.5 60.4 29 11 1-90 20 5 11 20 11 20 11 20 11 20 11 20 11 20 20 10 11 20 20 10 11 20 20 20 20 20 20 20 20 20 20 20 20 20	91-ALL 100.5 101.2 200.5 17.0 12.2 200.5 17.0 12.2 200.5 101.2 200	1-ALL 104.8 78.0 139.3 14-5 74.0 104.8 78.0 273.6 273.6 273.6 139.3 1-ALL 271 109.0 104.9 112.9 1-ALL 177 211 102	126.0
CATEGORY 11 1116 1117 1117 1117 1117 1118 1117 1118 1119 1119	1-15 39 21 0 14 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	16-30 38 18 19 19 20 72 72 72 72 73 8 10-10 10-1	31-45 200 101 102 103 103 103 104 105 105 107 107 107 107 107 107 107 107 107 107	177 % % % % % % % % % % % % % % % % % %	61-90 14 8 8 8 13 11 15 8440 10-11 10-1 2-12 18 10-12 11 10-1 11 10-1 11 10-1 11 10-1 11 10-1 11 10-1 11 10-1 11 10-	91-120 4 2 17 10 TENTHS 91-120 15.6 3.6 3.6 3.6 29.1 17.4 4NO TEN VI-120 103.7 104.8 107.6 103.7 104.8 107.6 104.7 104.8 107.6 107.7 108.8 107.6 108.8 109.8 119.8	TIL 121-180 7 7 7 7 2 18 6 6 121-180 6 8 4 121-180 120-5 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180	ME IN MIP 181-240 2 2 1 1 7 7 ME IN MIP 181-240 6-5 3-6 24-3 1 ME IN MIP 181-240	NUTES 241-360 4 3 1 12 11 NUTES 241-360 4 5 20:0 10:7 4:5 241-360 7 30:7	301-480 29.2 6.8 301-480 437.3 408.0 RS1 301-480 7.8 29.2 6.8	*81. *81. *81. *81. *81. *81.	1-900 134 59 19 19 19 17 86 82 1-900 11-5 86 83 11.5 86 83 11.5 86 83 11.5 86 83 11.5 86 83 86 86 87 88 88 81 1-900 11-90	91-ALL 130.3 170.5 171.0 29.0 17.0 110.2 91-ALL 130.3 170.5 101.5	1-ALL 104.8 78.0 139.3 14-5 74 1-ALL 104.8 78.0 273.6 273.6 273.6 273.6 273.6 139.3 1-ALL 271 109.0 104.9 112.9 11-ALL 177 211 102 1-ALL 173.7 90.5 49.9 28.9 28.9 28.9 28.9 28.9 28.9 28.9 2	120.0
CATEGORY 11 1114 1116 1117 1117 1118 1119 1111 1111 1111 1111	1-15 39 21 0 16 17 1-15 7.6 4.7 7.6 2.7 6.3 71ME J 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 11.7 12.0 12.0 12.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13	16-30 38 31 31 31 32 72 72 72 72 72 73 8 6 16-30 72 73 8 16-30 72 73 8 16-30 72 73 8 16-30 72 73 8 16-30 72 73 8 16-30 72 73 8 16-30 72 73 73 73 73 73 73 73 73 73 73 73 73 73	31-45 20 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	177 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	61-90 14 3 3 11 5 440 15-10 16	91-120 4 2 17 10 TENTHS 91-120 15.6 29.1 17.4 40.7 TEN 91-120 103.7 104.8 107.6 104.6 117.6 104.7 104.8 104.8 105.8 106.8 107.8 107.8 107.8 108.8	TIL 121-180 7 7 7 7 2 18 6 6 121-180 6 48 6 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 121-180 147 131-180 147 131-180 147 147 147 147 147 147 147 147 147 147	ME IN MIT 181-240 2 2 2 1 1 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NUTFS 241-360 1 2 11 NUTFS 241-360 13.7 4.7 61.6 53.7 NUTFS 241-360 13.7 25.1 11 NUTFS 241-360 13.7 25.1 11 NUTFS 241-360 13.7 25.1 11 12 12 13 13 13 14 15 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	361-480 29.2 6.8 361-480 29.3 6.8 361-480 7.8 20.2 6.8 361-480	*81. *81. *81. *81. *81. *81. *81. *81.	1-900 134-59 199 197 74 86 42 256.4 29.1 1-90 275.4 33.3 39.4 41.0 1-90 81.3 10.2 75.4 77.7 80.2 39.1	91-ALL 130.3 91-ALL 130.3 17.0 110.2 91-ALL 130.3 17.0 110.2 91-ALL 130.3 17.0 18.2 91-ALL 17.3 18.3 91-ALL 18.3 12.3 91-ALL 18.3 12.3 91-ALL 17.3 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	1-ALL 104.8 78.0 139.3 14-3 74.0 41.3 23.6 273.6 273.6 273.6 273.6 273.6 273.6 123.6 273.6 123.6	126.0
CATEGORY 11 1116 1117 1117 1117 1117 1118 1117 1118 1119 1119	1-15 39 21 0 14 17 18 17 18 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	16-30 38 31 31 31 32 72 72 72 72 72 73 8 74 72 73 8 74 77 73 8 74 77 73 8 74 77 75 76 76 77 76 77 77 77 77 77 77 77 77 77	31-45 20 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	117 % 40 % 40 % 40 % 40 % 40 % 40 % 40 % 4	61-90 14 8 8 8 13 11 5 AND 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-	91-120 4 2 17 10 10 11 10 11 11 11 12 13 16 16 16 17 18 19 10 10 10 10 10 10 10 10 10 10	TIL 121-180 7 7 7 7 2 186 6 121-180 4.8 4.8 4.8 121-180 124-18	ME IN MIP 181-240 2 2 1 1 7 7 ME IN MIP 181-240 6-5 3-6 24-3 1 10-1 181-240 188-0 199-0 188-0 199-0 188-0 199-0 188-0 199-0 188-1 199-0 189-0 199-	NUTES 241-360 4 3 1 12 11 NUTES 241-360 4 5 6 6 7 6 7 7 6 7 7 6 7 7 7 7 6 7 7 7 7 6 7 7 7 7 6 7	301-480 29.2 6.8 301-480 301-480 7.8 20.2 6.8 301-480 7.8 20.2 6.8 470.0	*81. *81. *81. *81. *81. *81. *81. *81. *81.	1-900 134 59 19 19 19 17 86 82 1-900 11-5 86 11-5 86 11-5 86 11-90	91-ALL 130.3 170.5 101.5	1-ALL 104.8 78.0 139.3 14-3 74.0 41.3 23.6 273.6 273.6 273.6 273.6 273.6 273.6 123.6 273.6 123.6	120.00

TARCE (A) - TEMPERATURE 1 BY CHURSES (A), WITH FOUND PRECIPITATION, AND WIND FREQUENCY OF COLUMBIAS (A) + 1990 (2557) OBSERVATION HOURS)		OTS. Y 1996 - DECFMPE	A 1965
TIME IN MINUTES (A*160** 1-15 15**0 3.**5 45*60 51*90 9.**120 121*180 181*240 241*360 361*480 11 1 3	401+	1-90 91-411	1-411
11 1 3 1114 1 2 1115 1		3	3
111C 11 + 111		ì	1
TOTAL TIME IN FACH OURATION HOURS AND TENTING		2	2
TIME IN MINUTES CATEGORY 1-15 10-36 31-45 40-66 61-90 91-120 121-180 181-240 241-360 361-480 11	4814	1-90 91-ALL 1.6 1.1	1-ALL 1.0 1.1
1116 .2 111C .11 .5 1.7 111 .2 .3		.2 2.1 .6	.2 2.1 .6
AVENAGE TIME IN EACH DURATION MINUTES AND TENTHS. TIME IN MINUTES			
CATEGURY 1-15 15-30 31-45 45-60 51-40 41-120 121-180 181-240 241-360 361-480 1114 15:0 26:3 1118 15:0 23:0 1118 14:0	481+	1-90 91-ALL 23.5 22.7 14.0	1-ALL 23.5 22.7 14.0
11 + 111 14.5 74.8 111 14.0 20.0		21.3	21.3
1400 - 2100 (29224 DASERVATION HOURS)		*****	
FREWHERLY OF OCCUMPENCE TIME IN MINUTES CATEGORY	481+	1-90 91-ALL	1-ALL
11	*61*	2	1
11 + 111 2		2	2
TUTAL TIME IN EACH DURATION HOURS AND TENTHS TIME IN MINUTES			
CATEGORY 1-15 16-30 31-45 46-60 61-40 91-120 121-180 181-246 [41-560 361-485] II .3 III .2 IIIB	481+	1-90 •1-411 .3 .2	1-ALL .3 .2
1116 11 • 111 • .)		.3	. 3
AVERAGE TIME IN EACH SURATION MINUTES AND TENTHS			
TIME IN MINUTES CATEGORY 1-15 16-30 31-45 46-60 61-90 91-120 121-180 181-240 241-360 361-480 11 10-0 111A 10-0 111B	4814	1-90 91-#LL 10.0 10.0	1-41 L 10.0 10.0
1116		10.0	10.0
1;1 2200 - 0400 (32877 DBSERVATION WOURS)			
PREMIENCY OF OCCURRENCE TIME IN MINUTES			
CATECUFY 1-19 16-30 31-45 46-60 01-90 91-120 121-180 181-240 241-360 361-480 111 2 2 3 1 1118	481+	1-90 91-ALL 7 6	1-411 7 6
		10	10
TUTAL TIME IN FACH DURATION HOURS AND TENTHS TIME IN MINUTES CATEGORY 1-15 16-30 31-45 %6-60 61-90 91-120 121-180 181-240 741-360 361-480	481+	1-90 91-ALL	1-ALL
11 .4 .8 2.2 1114 .7 .8 .7 1115		3.4 2.4 1.0	3.4 2.4
11 111 .9 .5 2.9 1.0		5.3 1.9	5.3
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS			
TIME IN MINUTES CATEGURY 1-15 16-90 31-45 wh-ro hi-vo 91-120 121-180 181-240 741-360 361-480 11 12.0 24.5 43.3 1118 14.0 74.5 43.0 1118	401+	1-90 91-ALL 29.0 23.5	1-ALL 29.0 23.5
1110 60.0 11 • 111 13.5 28.0 +3.8 60.0		60.0 31.7	31.7
11: 15.0 24.0 60.0 aut (87672 OBSERVATION HOURS)		28.5	?8.5
FREWHENCY OF UCCURRENCE TIME IN MINUTES			
CATEGORY 1-15 16-30 31-45 44-69 61-90 91-120 121-180 181-240 241-360 361-480 11 5 5 3 1114 3 3 4	481+	1-90 9 1-≜LL 13 7	1-ALL 13
1118 1 111C 1		1	1 1
11 + 111 6 5 4 1		18	16
TOTAL TIME IN FACH DURATION HOURS AND TENTHS TIME IN MINUTES			
CATEGURY 1-15 14-30 31-45 46-40 61-90 91-120 121-180 181-240 241-360 361-480 11 1-0 2.1 2.7 1114 -7 1.2 .1	*81*	1-90 91-411 5.3	1-ALL 5.3
11162 11101.0		2.4 .2 1.0	2.4 .2 1.0
17 + 111 1.7 2.1 2.9 1.0 111 .7 .7 1.0		7.0	7.8 2.5
AVERAGE TIME IN EACH DURATION MINUTES AND TENTHS. TIME IN MINUTES			
(ATEGORY 1-15 16-30 31-45 46-00 61-90 91-120 121-180 181-240 241-360 361-480 111 11.6 25.6 43.3 1118 14-0 23.3 43.0 1118 14-0	481+	1-90 91-ALL 74.4 70.9 14.0	1-ALL 24.4 70.9 14.0
1116 11 • 111 12.9 25.4 43.8 50.0		60.0 23.8	60.0

4.20